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Docket No.: 06005/38043A
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Letters Patent of:
Ashish Mehta et al.

Patent No.: 7,050,863

Issued: May 23, 2006

For: INTEGRATED MODEL PREDICTIVE
       CONTROL AND OPTIMIZATION WITHIN A
       PROCESS CONTROL SYSTEM

REQUEST FOR CERTIFICATE OF CORRECTION
PURSUANT TO 37 CFR 1.323

Attention: Certificate of Correction Branch
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

        Upon reviewing the above-identified patent, Patentee noted typographical

errors which should be corrected.

        On the First Page:

        In the Declaration, page 2, First Inventor, PTO error, "Austin" should be --

Round Rock --.

        On the Second Page:

        In the IDS, Sheet 2, Reference 28, PTO error, ";No." should be -- No. --.

        In the Drawings:

        At Sheet 3, Fig. 3, 6th text box, Applicant error, "AUXILLARY" should be --

AUXILIARY --.

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At Sheet 4, Fig. 4, 4th text box, Applicant error, "AUXILLARY" should be -- AUXILIARY --.

At Sheet 10, Fig. 10, the right side header, Applicant error, "Constrain" should be -- Constraint --.

In the Specification:

At page 1, line 29, PTO error, "process;" should be -- process, --.

At page 2, line 32, Applicant error, "multiple output" should be -- multiple-output --.

At page 5, lines 19-20, Applicant error, "multiple output" should be -- multiple-output --.

At page 6, line 11, Applicant error, "an process" should be -- a process --.

At page 6, line 12, Applicant error, "integrate" should be -- integrates --.

At page 6, line 25, Applicant error, "n" should be -- in --.

At page 11, line 16, Applicant error, "and a" should be -- and an --.

At page 14, line 2, Applicant error, "an" should be --a --.

At page 14, line 14, PTO error, "$Q=P^t A*\Delta MV+C^t \Delta MV$" should be -- $Q=P^{t}*A*\Delta MV+C^t \Delta MV$ --.

At page 32, line 7, PTO error, "ATA" should be -- $A^T A$ --.

At page 36, line 14, Applicant error, "ones" should be -- one --.

At page 38, line 7, Applicant error, "an target" should be -- a target --.

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<u>In the Claims:</u>

At page 44, Claim 10, line 3, Applicant error, "response information response information" should be -- response information --.

At page 47, Claim 22, line 17 of that page, Applicant error, "variables and;" should be -- variables; and --.

At page 48, Claim 25, line 17, Applicant error, "multiple output" should be -- multiple-output --.

At page 50, Claim 29, line 3 of that page, Applicant error, "multiple output" should be -- multiple-output --.

At page 50, Claim 30, line 7, Applicant error, "multiple output" should be -- multiple-output --.

At page 51, Claim 31, line 7, Applicant error, "multiple output" should be -- multiple-output --.

The errors were found in the application as filed by applicant. Our check in the amount of $100.00 covering the fee set forth in 37 CFR 1.20(a) is enclosed.

The errors now sought to be corrected are inadvertent typographical errors the correction of which does not involve new matter or require reexamination.

Transmitted herewith is a proposed Certificate of Correction effecting such amendment. Patentee respectfully solicits the granting of the requested Certificate of Correction.
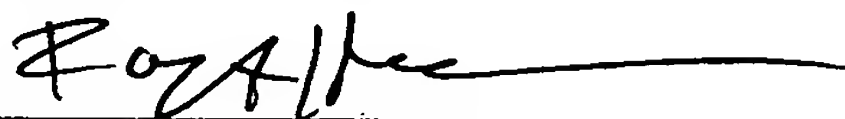
       The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 13-2855, under Order No. 06005/38043A. A duplicate copy of this paper is enclosed.

Dated: February 12, 2007   Respectfully submitted,

                                                By_____

                                            Roger A. Heppermann
                                              Registration No.: 37,641
                                        MARSHALL, GERSTEIN & BORUN LLP
                                        233 S. Wacker Drive, Suite 6300
                                        Sears Tower
                                        Chicago, Illinois 60606-6357
                                        (312) 474-6300
                                        Attorney for Applicants

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PTO/SB/17 (07-06)
Approved for use through 01/31/2007. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no person are required to respond to a collection of information unless it displays a valid OMB control number.

Effective on 12/08/2004.
Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

FEE TRANSMITTAL
For FY 2006

	Complete if Known	
Application Number	Patent#: 7,050,863
Filing Date	Issued: May 23, 2006
First Named Inventor	Ashish Mehta
Examiner Name	Not Yet Assigned

[ ] Applicant claims small entity status. See 37 CFR 1.27

Art Unit	2122

TOTAL AMOUNT OF PAYMENT	($) 100.00	Attorney Docket No.	06005/38043A

METHOD OF PAYMENT (check all that apply)

[x] Check   [ ] Credit Card   [ ] Money Order   [ ] None   [ ] Other (please identify): _____

[ ] Deposit Account   Deposit Account Number: 13-2855   Deposit Account Name: MARSHALL, GERSTEIN & BORUN LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

[ ] Charge fee(s) indicated below

[ ] Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17

[ ] Charge fee(s) indicated below, **except for the filing fee**

[x] Credit any overpayments

FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES Fee ($)	FILING FEES Small Entity Fee ($)	SEARCH FEES Fee ($)	SEARCH FEES Small Entity Fee ($)	EXAMINATION FEES Fee ($)	EXAMINATION FEES Small Entity Fee ($)	Fees Paid ($)
Utility	300	150	500	250	200	100	_____
Design	200	100	100	50	130	65	_____
Plant	200	100	300	150	160	80	_____
Reissue	300	150	500	250	600	300	_____
Provisional	200	100	0	0	0	0	_____

2. EXCESS CLAIM FEES

Fee Description	Fee ($)	Small Entity Fee ($)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180

Total Claims	Extra Claims	Fee ($)	Fee Paid ($)
_____ - = _____	x _____	= _____

HP = highest number of total claims paid for, if greater than 20.

Multiple Dependent Claims Fee ($)	Fee Paid ($)
_____	_____

Indep. Claims	Extra Claims	Fee ($)	Fee Paid ($)
_____ - = _____	x _____	= _____

HP = highest number of independent claims paid for, if greater than 3.

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is $250 ($125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee ($)	Fee Paid ($)
_____ - 100 = _____	/50 _____	(round up to a whole number) x _____	= _____

4. OTHER FEE(S)

Fees Paid ($)

Non-English Specification, $130 fee (no small entity discount)

Other (e.g., late filing surcharge): 1811 Certificate of correction   100.00

SUBMITTED BY

Signature	*(signature)*	Registration No. (Attorney/Agent)	37,641	Telephone	(312) 474-6300
Name (Print/Type)	Roger A. Heppermann			Date	2/12/07

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the U.S. Postal Service on the date shown below with sufficient postage as First Class Mail, in an envelope addressed to: Attention: Certificate of Correction Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Dated: 2/12/07   Signature: *(signature)* _____ (Roger A. Heppermann)

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(PATENT)

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At page 5, lines 19-20, Applicant error, "multiple output" should be -- multiple-output --.

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At page 6, line 25, Applicant error, "n" should be -- in --.

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At page 36, line 14, Applicant error, "ones" should be -- one --.

At page 38, line 7, Applicant error, "an target" should be -- a target --.

In the Claims:

At page 44, Claim 10, line 3, Applicant error, "response information response information" should be -- response information --.

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At page 50, Claim 29, line 3 of that page, Applicant error, "multiple output" should be -- multiple-output --.

At page 50, Claim 30, line 7, Applicant error, "multiple output" should be -- multiple-output --.

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The errors now sought to be corrected are inadvertent typographical errors the correction of which does not involve new matter or require reexamination.

Transmitted herewith is a proposed Certificate of Correction effecting such amendment. Patentee respectfully solicits the granting of the requested Certificate of Correction.
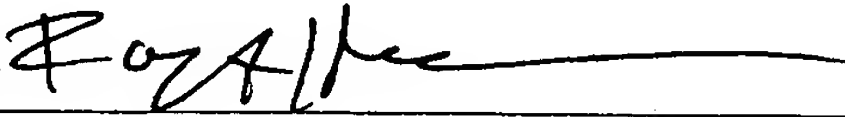
FEB 2 1 2007

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 13-2855, under Order No. 06005/38043A. A duplicate copy of this paper is enclosed.

Dated: February 12, 2007   Respectfully submitted,

By _____

Roger A. Heppermann
    Registration No.: 37,641
MARSHALL, GERSTEIN & BORUN LLP
233 S. Wacker Drive, Suite 6300
Sears Tower
Chicago, Illinois 60606-6357
(312) 474-6300
Attorney for Applicants

FEB 2 1 2007

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

Page __1__ of __2__

PATENT NO.	:	7,050,863
APPLICATION NO.	:	10/627,362
ISSUE DATE	:	May 23, 2006
INVENTOR(S)	:	Ashish Mehta et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the First Page:

At line (75), 1st Inventor, "Austin" should be -- Round Rock --.

On the Second Page:

At line (56), Other Publications, 18th Reference, ";No." should be -- No. --.

In the Drawings:

At Sheet 3, 6th text box, "AUXILLARY" should be -- AUXILIARY --.

At Sheet 4, 4th text box, "AUXILLARY" should be -- AUXILIARY --.

At Sheet 10, the header on the right side, "Constrain" should be -- Constraint --.

In the Specification:

At Column 1, line 47, "process;" should be -- process, --.

At Column 2, lines 35-36, "multiple output" should be -- multiple-output --.

At Column 4, line 35, "multiple output" should be -- multiple-output --.

At Column 5, line 3, "an process" should be -- a process --.

MAILING ADDRESS OF SENDER (Please do not use customer number below):
Roger A. Heppermann
MARSHALL, GERSTEIN & BORUN LLP   1
233 S. Wacker Drive, Suite 6300
Sears Tower
Chicago, Illinois 60606-6357

FEB 2 1 2007

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

Page __2__ of __2__

At Column 5, line 5, "integrate" should be -- integrates --.

At Column 5, line 24, "n" should be -- in --.

At Column 8, line 55, "and a" should be -- and an --.

At Column 10, line 49, "an" should be --a --.

At Column 10, line 66, "$Q=P^tA*\Delta MV+C^t\Delta MV$" should be -- $Q=P^{t*}A*\Delta MV+C^t\Delta MV$ --.

At Column 24, line 11, "ATA" should be -- A^TA --.

At Column 27, line 24, "ones" should be -- one --.

At Column 28, line 43, "an target" should be -- a target --.

In the Claims:

At Column 31, line 67, "response information response information" should be -- response information --.

At Column 34, line 7, "variables and;" should be -- variables; and --.

At Column 34, line 64, "multiple output" should be -- multiple-output --.

At Column 35, line 46, "multiple output" should be -- multiple-output --.

At Column 35, line 63, "multiple output" should be -- multiple-output --.

At Column 36, line 35, "multiple output" should be -- multiple-output --.

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the U.S. Postal Service on the date shown below with sufficient postage as First Class Mail, in an envelope addressed to: Attention: Certificate of Correction Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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MAILING ADDRESS OF SENDER (Please do not use customer number below):
Roger A. Heppermann
MARSHALL, GERSTEIN & BORUN LLP   2
233 S. Wacker Drive, Suite 6300
Sears Tower
Chicago, Illinois 60606-6357

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